APPENDIX D

SPECIAL STATUS SPECIES THAT MAY OCCUR IN THE PROJECT VICINITY

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- D-1 Letter from the U.S. Fish and Wildlife Service dated December 17, 2001, with a list of Endangered and Threatened Species that May Occur in the Pleasant Grove and Roseville Quads
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- D-3 Plant Species Observed on the Project Site and Immediate Vicinity
- D-4 Wildlife Species Observed on the Project Site and Immediate Vicinity

D-1

LETTER FROM THE U.S. FISH AND WILDLIFE SERVICE DATED DECEMBER 17, 2001

ENCLOSURE A

Endangered and Threatened Species that May Occur in or be Affected by Projects in the Selected Quads Listed Below Reference File No. 1-1-02-SP-0454 02-SP-454 Reason Farms Retention Basin, URS, J. Pretare December 13, 2001

QUAD: 528C PLEASANT GROVE

Listed Species

Birds

bald eagle, Haliaeetus leucocephalus (T)

Reptiles

giant garter snake, Thamnophis gigas (T)

Amphibians

California red-legged frog, Rana aurora draytonii (T)

Fish

delta smelt, Hypomesus transpacificus (T)

Central Valley steelhead, Oncorhynchus mykiss (T)

winter-run chinook salmon, Oncorhynchus tshawytscha (E)

Central Valley spring-run chinook salmon, Oncorhynchus tshawytscha (T)

Sacramento splittail, Pogonichthys macrolepidotus (T)

Invertebrates

vernal pool fairy shrimp, Branchinecta lynchi (T)

valley elderberry longhorn beetle, Desmocerus californicus dimorphus (T)

vernal pool tadpole shrimp, Lepidurus packardi (E)

Proposed Species

Birds

mountain plover, Charadrius montanus (PT)

Candidate Species

Birds

Western yellow-billed cuckoo, Coccyzus americanus occidentalis (C)

Fish

Central Valley fall/late fall-run chinook salmon, Oncorhynchus tshawytscha (C)

Species of Concern

Mammals

Pacific western big-eared bat, Corynorhinus (=Plecotus) townsendii townsendii (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC) small-footed myotis bat, *Myotis ciliolabrum* (SC) long-legged myotis bat, *Myotis volans* (SC) Yuma myotis bat, *Myotis yumanensis* (SC) San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

tricolored blackbird, Agelaius tricolor (SC) grasshopper sparrow, Ammodramus savannarum (SC) short-eared owl, Asio flammeus (SC) western burrowing owl, Athene cunicularia hypugaea (SC) Aleutian Canada goose, Branta canadensis leucopareia (D) Swainson's hawk, Buteo Swainsoni (CA) ferruginous hawk, Buteo regalis (SC) Lawrence's goldfinch, Carduelis lawrencei (SC) Vaux's swift, Chaetura vauxi (SC) black tern, Chlidonias niger (SC) white-tailed (=black shouldered) kite, Elanus leucurus (SC) little willow flycatcher, Empidonax traillii brewsteri (CA) American peregrine falcon, Falco peregrinus anatum (D) greater sandhill crane, Grus canadensis tabida (CA) loggerhead shrike, Lanius Iudovicianus (SC) Lewis' woodpecker, Melanerpes lewis (SC) long-billed curlew, Numenius americanus (SC) white-faced ibis, Plegadis chihi (SC) bank swallow, Riparia riparia (CA) rufous hummingbird, Selasphorus rufus (SC)

Reptiles

northwestern pond turtle, Clemmys marmorata marmorata (SC)

California horned lizard, Phrynosoma coronatum frontale (SC)

Amphibians

western spadefoot toad, Scaphiopus hammondii (SC)

Fish

green sturgeon, *Acipenser medirostris* (SC) longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

QUAD : 528D ROSEVILLE

Listed Species

Birds

bald eagle, Haliaeetus leucocephalus (T)

Reptiles

giant garter snake, Thamnophis gigas (T)

Amphibians

California red-legged frog, Rana aurora draytonii (T)

Fish

delta smelt, *Hypomesus transpacificus* (T) Central Valley steelhead, *Oncorhynchus mykiss* (T) winter-run chinook salmon, *Oncorhynchus tshawytscha* (E) Central Valley spring-run chinook salmon, *Oncorhynchus tshawytscha* (T) Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Invertebrates

vernal pool fairy shrimp, *Branchinecta lynchi* (T) valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T) vernal pool tadpole shrimp, *Lepidurus packardi* (E)

Proposed Species

Birds

mountain plover, Charadrius montanus (PT)

Candidate Species

Fish

Central Valley fall/late fall-run chinook salmon, Oncorhynchus tshawytscha (C)

Species of Concern

Mammals

Pacific western big-eared bat, Corynorhinus (=Plecotus) townsendii townsendii (SC)

greater western mastiff-bat, Eumops perotis californicus (SC)

small-footed myotis bat, Myotis ciliolabrum (SC)

long-eared myotis bat, Myotis evotis (SC)

fringed myotis bat, Myotis thysanodes (SC)

long-legged myotis bat, Myotis volans (SC)

Yuma myotis bat, Myotis yumanensis (SC)

San Joaquin pocket mouse, Perognathus inornatus (SC)

Birds

tricolored blackbird, Agelaius tricolor (SC) grasshopper sparrow, Ammodramus savannarum (SC) short-eared owl, Asio flammeus (SC) western burrowing owl, Athene cunicularia hypugaea (SC) Aleutian Canada goose, Branta canadensis leucopareia (D) Swainson's hawk, Buteo Swainsoni (CA) ferruginous hawk, Buteo regalis (SC) Lawrence's goldfinch, Carduelis lawrencei (SC) Vaux's swift, Chaetura vauxi (SC) black tern, Chlidonias niger (SC) black swift, Cypseloides niger (SC) white-tailed (=black shouldered) kite, Elanus leucurus (SC) little willow flycatcher, Empidonax traillii brewsteri (CA) American peregrine falcon, Falco peregrinus anatum (D) greater sandhill crane, Grus canadensis tabida (CA) loggerhead shrike, Lanius Iudovicianus (SC) Lewis' woodpecker, Melanerpes lewis (SC) long-billed curlew, Numenius americanus (SC) white-faced ibis, Plegadis chihi (SC) bank swallow, Riparia riparia (CA) rufous hummingbird, Selasphorus rufus (SC)

Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC) California horned lizard, *Phrynosoma coronatum frontale* (SC)

Amphibians

western spadefoot toad, Scaphiopus hammondii (SC)

Fish

green sturgeon, Acipenser medirostris (SC)

longfin smelt, Spirinchus thaleichthys (SC)

Invertebrates

California linderiella fairy shrimp, Linderiella occidentalis (SC)

Plants

hispid bird's-beak, *Cordylanthus mollis ssp. hispidus* (SC) Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA) legenere, *Legenere limosa* (SC)

KEY:

(E)	Endangered	Listed (in the Federal Register) as being in danger of extinction.
(T)	Threatened	Listed as likely to become endangered within the foreseeable future.
(P)	Proposed	Officially proposed (in the Federal Register) for listing as endangered or threatened.
(PX)	Proposed	Proposed as an area essential to the conservation of the species.
	Critical Habitat	
(C)	Candidate	Candidate to become a <i>proposed</i> species.
(SC)	Species of	May be endangered or threatened. Not enough biological information has been
	Concern	gathered to support listing at this time.
(MB)	Migratory	Migratory bird
	Bird	
(D)	Delisted	Delisted. Status to be monitored for 5 years.
(CA)	State-Listed	Listed as threatened or endangered by the State of California.
(*)	Extirpated	Possibly extirpated from this quad.
(**)	Extinct	Possibly extinct.
	Critical Habitat	Area essential to the conservation of a species.

LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE REASON

D-2

FARMS RETENTION BASIN PROJECT AREA

LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE **REASON FARMS RETENTION BASIN PROJECT AREA TABLE 1**

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Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
LISTED SPECIES				
<i>Riparia riparia</i> (nesting) bank swallow	None/ T	1	Colonial nester; nests primarily in riparian and other lowland habitats; requires vertical banks/cliffs with fine textured/sandy soils near streams, rivers, lakes, or ocean to dig nesting hole	Not likely; no nesting habitat
Falco peregrinus anatum (nesting) American peregrine falcon	D/ E, FP	1	Uncommonly found in the Central Valley as a winter resident, requires protected cliffs and ledges for cover, frequents bodies of water in open areas with cliffs and cover for nesting	Not likely; no habitat
<i>Elanus leucurus</i> (nesting) white-tailed kite	SC/ FP	1	Low rolling foothills, valley margins with scattered oaks and river bottomlands or marshes adjacent to deciduous woodland; dense-topped trees for nesting and perching	Observed in the project area; has nested in the vicinity
Branta canadensis leucopareia Aleutian Canada goose	D/ None	1	Open water, fields, in the Central Valley almost exclusively within the Merced National Wildlife Refuge	Not likely; this species occurs at only two distinct locations in the Central Valley
<i>Buteo swainsoni</i> (nesting) Swainson's hawk	None/ T	1	Breeds in stands with few trees in juniper- sage flats, riparian areas, oak savannahs, with adjacent suitable forage areas such as grasslands, or alfalfa or grain fields supporting rodent populations	May occur in the project area; mature trees suitable for nesting on the project site

LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE **REASON FARMS RETENTION BASIN PROJECT AREA TABLE 1**

Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
Haliaeetus leucocephalus (nesting and wintering) bald eagle	T/ E, FP	I	Large lakes and rivers, coastal lagoons, sea cliffs and islands	Not likely; no habitat
Charadrius montanus mountain plover	PT/ SC	1	Central Valley (winter resident) prefers grassland for foraging	Unlikely to occur; habitat flooded during winter season
Grus canadensis tabida (nesting and wintering) greater sandhill crane	None/ T, FP	1	Winters in the Central Valley; prefers wide open habitats, including mesic grasslands, mesic croplands, and large freshwater marshes	May occur in the project area
Empidonax traillii brewsteri little willow flycatcher	None/ E	1	Wet meadows and riparian habitats, requires dense willow thickets for nesting and roosting	Not likely; riparian habitat comprised almost entirely of oaks
Coccyzus americanus occidentalis Western yellow-billed cuckoo	E	ν I	Willow and cottonwood tree riparian forests and orchards. Found along the upper Sacramento Valley portion of the Sacramento River, the Feather River in Sutter County, and in Kern County	Not likely; riparian habitat comprised almost entirely of oaks
<i>Thamnophis gigas</i> giant garter snake	T/ T, P	I	Prefers freshwater marsh and low gradient streams, has adapted to drainage canals and irrigation ditches	Not likely; outside the species' current known range, too high an elevation
Rana aurora draytonii California red-legged frog	T/ SC, P	1	Pools in marshes, streams, ponds, with emergent vegetation, and typically without predatory fish, require adequate hibernacula such as small mammal burrows and moist leaf litter	Not likely; no habitat

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LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE Reason Farms Retention Basin Project Area **TABLE 1**

Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
Oncorhynchus tshawytscha Central Valley fall-run chinook salmon	C/ SC	ł	Pacific Ocean, spawn in large, permanent coastal streams and rivers, over gravel beds	Not likely; Pleasant Grove Creek too seasonal
Oncorhynchus tshawytscha winter-run chinook salmon	E/ E	1	Pacific Ocean, spawn in large, permanent coastal streams and rivers, over gravel beds	Not likely; Pleasant Grove Creek too seasonal
Oncorhynchus tshawytscha spring-run chinook salmon	T/ T	I	Pacific Ocean, spawn in large, permanent coastal streams and rivers, over gravel beds	Not likely; Pleasant Grove Creek too seasonal
Hypomesus transpacificus Delta smelt	T/ T	I	Low-mid reaches of San Joaquin- Sacramento Delta	Not likely; too far upstream from the Delta
Oncorhynchus mykiss Central Valley steelhead	T/ T	I	Pacific Ocean, spawn in coastal streams and rivers, over gravel beds	Not likely; Pleasant Grove Creek too seasonal
Pogonichthys macrolepidotus Sacramento splittail	T/ None	I	Lower Sacramento Delta, spawn over shoreline vegetation or over gravel in creek tributaries of large rivers during spring high water levels	Not likely; too far upstream from the Delta
Branchinecta Iynchi vernal pool fairy shrimp	T/ None	I	Vernal pools, inhabit small, clear-water sandstone depression pools and grassed swale, earth slump, or basalt-flow depression pools	May occur in the project area

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TABLE 1 LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE **REASON FARMS RETENTION BASIN PROJECT AREA**

Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
Lepidurus packardi vernal pool tadpole shrimp	E/ None	1	Seasonal pools in unplowed grassland with old alluvial soils underlain by hardpan or in sandstone depressions, water in the pools has very low alkalinity and conductivity	May occur in the project area
Desmocerus californicus dimorphus valley elderberry longhorn beetle	T/ None	1	Occurs only in the Central Valley, in association with blue elderberry shrubs, prefers to lays eggs in elderberries 2 to 8 inches in diameter, some preference for "stressed" elderberries	Not likely; no elderberry shrubs are present in the project area
Gratiola heterosepala Boggs Lake hedge- hyssop	None/ E	1B/ 1-2-2	Marshes and swamps (freshwater), vernal pools; clay soils; usually in vernal pools, sometimes on lake margins; 10-2,375 meters	May occur in the project area
SPECIES OF CONCERN				
Perognathus inornatus inornatus San Joaquin pocket mouse	SC/ None	1	Grasslands, blue oak savannas, needs friable soils	Not likely; no habitat
<i>Myotis thysanodes</i> fringed myotis bat	SC/ None	1	Widespread in California, occurring in all but the Central Valley and Colorado and Mojave deserts; generally at 1,300-2,200 meters	Not likely; wrong elevation
Myotis volans long-legged myotis bat	SC/ None	I	Coast ranges, Cascade/Sierra ranges, Mojave Desert mountains, common above 1,200 meters	Not likely; wrong elevation

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LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE **REASON FARMS RETENTION BASIN PROJECT AREA TABLE 1**

I

Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
<i>Myotis yumanensis</i> Yuma myotis bat	SC/ None	I	Forests and woodlands with sources of water over which to feed, roosts in buildings, mines, caves, crevices, occasionally under bridges	May occur in the project area
<i>Myotis evotis</i> long-eared myotis bat	SC/ None	I	Widespread in California, avoids the arid Central Valley and hot deserts	Not likely; no habitat
Myotis ciliolabrum small-footed myotis bat	SC/ None	l	Arid woody or brushy uplands, near water, west and east sides of Sierra Nevada; 0- 2,700 meters	May occur in the project area
Corynorhinus townsendii townsendii Pacific western big- eared bat	sc/ sc	1	Prefers mesic areas; roosts in caves or similar structures	Not likely; no roosting habitat
<i>Eumops perotis</i> californicus greater western mastiff bat	SC/ None	1	Open, arid grassland and sparse woodland, often utilizing cliffs for breeding and roosting	May occur in the project area
Agelaius tricolor (nesting colony) tricolored blackbird	sc/ sc	I	Open water, protected nesting substrate such as blackberry brambles or emergent vegetation sufficient to accommodate at least fifty nesting pairs	Not likely; no habitat
Athene cunicularia hypugea Western burrowing owl	sc/ sc	I	Grassland, sparse shrubland use abandoned burrows of ground squirrel, and other burrowing mammals, for shelter and nesting	Not likely; no small mammal burrows observed in the project area

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LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE **REASON FARMS RETENTION BASIN PROJECT AREA TABLE 1**

Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
Buteo regalis (wintering) ferruginous hawk	SC/ SC	ł	Grasslands or desert with elevated structure for nest; uncommon winter resident and migrant in Central Valley	Not likely; no habitat
<i>Plegadis chihi</i> white-faced ibis	SC/ SC	1	Roosts among dense stands of freshwater emergent vegetation, near shallow water or muddy fields for foraging, currently known to the Central Valley as a rare summer visitor	Not likely; no habitat
Annnodranus savannarum grasshopper sparrow	SC/ None	I	Nests in dense grasslands with a thick cover of grasses and forbs in the Central Valley	Not likely; no habitat
Asio flammeus short-eared owl	SC/ SC	I	Nests in marsh habitats; during winter uses grasslands, marshes, and agricultural habitats	May occur in the project area; nesting habitat would not be impacted
Carduelis lawrencei Lawrence's goldfinch	SC/ None	I	Oak and pine riparian woodland, chaparral, piñon/juniper woodland, arid weedy areas near water	May occur in the project area
<i>Chaetura vauxi</i> Vaux's swift	SC/ SC	1	Typically associated with old growth redwood forests on the coast and in the Sierra Nevada, and man-made structures such as chimneys	Not likely; no habitat
Cypseloides niger black swift	sc/ sc	I	Mountainous cliffs, sea cliffs, and caves	Not likely; no habitat
Chlidonias niger black tern	SC/ SC	I	Freshwater marshes and wetlands in the Central Valley and northeastern California	Not likely; no habitat

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TABLE 1 LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE **REASON FARMS RETENTION BASIN PROJECT AREA**

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L

Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
Lanius ludovicianus loggerhead shrike	sc/ sc	I	Throughout California in grasslands, woodlands, and agricultural areas	May occur in the project area
Melanerpes lewis Lewis' woodpecker	SC/ None	ł	Year-round resident of the Central Valley, found in open woodland or forest, including oaks and riparian areas	May occur in the project area
Numenius americanus long-billed curlew	SC/ SC	ł	Large coastal estuaries; upland herbaceous areas and cultivated fields in the Central Valley	May occur in the project area
Selasphorus rufus rufous hummingbird	SC/ None	1	Coniferous forests and adjacent open fields in northern California	Not likely; no habitat
Circus cyaneus northern harrier	None/ SC	I	In the Central Valley, occurs in meadows, grasslands, rangelands, fresh and saltwater emergent wetlands	Observed in the project area
<i>Phrynosoma coronatum</i> <i>frontale</i> California horned lizard	SC/ SC, P	I	Valley-foothill hardwood, conifer, and riparian habitats, as well as pine-cypress, juniper, and annual grass habitats, basks on low boulders or rocks, burrow into soil or under objects for cover and hibernation	May occur in the project area
Clemmys marmorata northwestern pond turtle	SC/ SC, P	1	Ponds, marshes, rivers, streams, irrigation ditches, need basking sites such as partially submerged logs or rocks, and suitable upland habit (sandy banks or grassy open fields) for egg laying	Observed in the project area
Scaphiopus hammondii Western spadefoot	sc/ sc	1	Grassland and valley-foothill hardwood woodlands, vernal pools are essential for breeding and egg laying	May occur in the project area

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LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE **REASON FARMS RETENTION BASIN PROJECT AREA TABLE 1**

Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
Acipenser medirostris green sturgeon	SC/ SC	1	Pacific Ocean, seldom migrates inland beyond estuaries of large rivers	Not likely; Pleasant Grove Creek too far upstream from ocean
Spirinchus thaleichthys longfin smelt	SC/ None	1	Moderately saline water, bays and estuaries	Not likely; Pleasant Grove Creek too
Linderiella occidentalis California linderiella	SC/ None	1	Seasonal pools in unplowed grasslands with old alluvial soils underlain by hardpan, or in sandstone depressions; water has very low alkalinity, conductivity and total dissolved solids	May occur in the project area
<i>Legenere limosa</i> legenere	SC/ None	1B/ 2-3-3	Vernal pools; in beds of vernal pools; many historic occurrences are extirpated	May occur in the project area
Cordylanthus mollis hispidus hispid bird's beak	SC/ None	1B/ 2-3-3	Meadows, playas, valley and foothill grasslands; in damp alkaline soils, especially in alkaline meadows and alkali sinks with <i>Distichlis</i> spp.; 10-155 meters	Not likely; no habitat
<i>Downingia pusilla</i> dwarf downingia	None/ None	2/ 1-2-1	Valley and foothill grassland (mesic), vernal pools; 1-445 meters	Observed in the project area
Sagittaria sanfordii Sanford's arrowhead	None/ None	1B/ 2-2-3	Swamps and marshes (assorted shallow freshwater); 0-610 meters	Not likely; no habitat
Balsamorhiza macrolepis var. macrolepis big-scale balsamroot	None/ None	1B/ 2-2-3	Chaparral, cismontane woodland, valley and foothill grassland / sometimes serpentinite; 90-1,400 meters	Not likely; no habitat

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LISTED, PROPOSED, SI	PECIES OF CC REA	NCERN, A	LISTED, PROPOSED, SPECIES OF CONCERN, AND CANDIDATE SPECIES THAT MAY OCCUR IN THE VICINITY OF THE Reason Farms Retention Basin Project Area	OCCUR IN THE VICINITY C
Scientific Name COMMON NAME	Federal/ State Listing ¹	CNPS/ R-E-D ²	Preferred Habitat	Likelihood That Species May Occur in Project Area
Juncus leiospermus var. ahartii Ahart's dwarf rush	None/ None	1B/ 3-2-3	Valley and foothill grassland (mesic); 30-100 meters	Not likely; no habitat
¹ Federal and State Listing Codes: E = Endangered T = Threatened C = Candidate D = Delisted P = Proposed Threatened P = Protected FP = Fully Protected SC = Species of Concern	is _			
² Source: CNPS, 2001. Californ Sacramento, CA.	nia Native Plant S	ociety's Inve	² Source: CNPS, 2001. California Native Plant Society's Inventory of Rare and Endangered Plants of California, 6 th Edition. David P. Tibor, Editor. Sacramento, CA.	a, 6 th Edition. David P. Tibor, Edito
CNPS List: 1B. Rare or Endangered in California and elsewhere 2. Rare or Endangered in California, more common elsewhere	n California and e n California, mor	elsewhere e common el	sewhere	
CNPS Rarity – Endangerment – Distribution key: R – Rarity 1 Rare in California but found in sufficier 2 Distributed in a limited number of occu	nent – Distribution ia but found in su limited number of	n key: fficient numb `occurrences	rity – Endangerment – Distribution key: / Rare in California but found in sufficient numbers and distributed widely enough that the potential for extinction is low at this time. Distributed in a limited number of occurrences in California, occasionally more if each occurrence is small.	ial for extinction is low at this time. ce is small.

- Distributed in California in one to several highly restricted occurrences, or present in such small numbers that it is seldom report. ŝ
- E Endangerment
 I Not very endangered in California
 2 Fairly endangered in California
 3 Seriously endangered in California
- D Distribution
 1 More or less widespread outside California
 2 Rare outside California
 3 Endemic to California

D-3

PLANT SPECIES OBSERVED ON THE PROJECT SITE AND IMMEDIATE VICINITY

			Habitat	Туре	
Scientific Name	Common Name	Grassland/ Ruderal	Seasonal Wetland/ Vernal Pool	Riparian	Cultivated
Amsinckia menziesii	rancher's fireweed	X		Х	
Anagallis arvensis	scarlet pimpernel	X			
Anthriscus caucaulis	bur-chervil			X	
Artemisia douglasii	mugwort			x	
Arundo donax	giant reed			X	
Avena fatua	wild oat			X	
Briza minor	little quaking grass	X			
Bromus diandrus	ripgut brome	X		X	
Bromus hordeaceus	soft chess	X			
Calandrinia ciliata	red maids	X			
Callitriche marginata	water-starwort		X		
Carduus pycnocephalus	Italian thistle	Х		х	
Carex sp.	sedge		X		
Centaurea solstitialis	yellow star thistle	Х		X	
Cephalanthus occidentalis	button bush			Х	
Cerastium arvense	field chickweed	Х		X	
Chlorogalum pomeridianum	soap plant	Х		X	
Claytonia parviflora		X		x	
Convolvulus arvensis	bindweed	X			
Downingia pusilla	dwarf downingia		X		
Eleocharis macrostachya	spikerush		X		
Erodium botrys	red-stem filaree	X	X		
Erodium cicutarium	white-stem filaree	Х			
Eryngium vaseyi	coyote thistle		X		
Eschscholzia californica	California poppy			X	

 Table 2

 Plant Species Observed on the Project Site and Immediate Vicinity

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Scientific Name **Common Name Birds** Agelaius phoeniceus red-winged blackbird Aix sponsa wood duck Anas americana American wigeon Anas cyanoptera cinnamon teal Anas platyrhynchos mallard Aphelocoma coerulescens scrub jay Ardea herodias great blue heron Baeolophus inornatus oak titmouse Botaurus lentiginosus American bittern Branta canadensis Canada goose Bubo virginianus great horned owl Buteo jamaicensis red-tailed hawk Callipepla californica California quail Calypte anna Anna's hummingbird Casmerodius albus great egret Cathartes aura turkey vulture Charadrius vociferus killdeer Ceryle alcyon belted kingfisher Circus cyaneus northern harrier Colaptes auratus northern flicker Corvus brachyrhynchos American crow Dendroica coronata yellow-rumped warbler Elanus caeruleus white-tailed kite Euphagus cyanocephalus Brewer's blackbird Falco sparverius American kestrel Fulica americana American coot Hirundo rustica barn swallow Icterus bullockii Bullock's oriole Junco hyemalis dark-eyed junco Melospiza lincolnii Lincoln's sparrow Melospiza melodia song sparrow Mimus polyglottos northern mockingbird Molothrus ater brown-headed cowbird Nycticorax nycticorax black-crowned night-heron

 Table 3

 Wildlife Species Observed on the Project Site and Immediate Vicinity

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Scientific Name	Common Name
Passer domesticus	house sparrow
Phasianus colchicus	ring-necked pheasant
Phalacrocorax auritus	double-crested cormorant
Pica nuttalli	yellow-billed magpie
Picoides pubescens	downy woodpecker
Pipilo crissalis	California towhee
Psaltriparus minimus	bushtit
Regulus calendula	ruby-crowned kinglet
Sayornis nigricans	black phoebe
Sturnella neglecta	western meadowlark
Sturnus vulgaris	European starling
Tachycineta bicolor	tree swallow
Turdus migratorius	American robin
Tringa spp.	yellowlegs spp.
Tyrannus verticalis	western kingbird
Wilsonia pusilla	Wilson's warbler
Zenaida macroura	mourning dove
Zonotrichia atricapilla	golden-crowned sparrow
Zonotrichia leucophrys	white-crowned sparrow
Mammals	
Ondatra zibethica	muskrat
Sylvilagus auduboni	desert cottontail
Reptiles	
Clemmys marmorata	western pond turtle
Pituophis melanoleucus	gopher snake
Thamnophis sirtalis	common garter snake
Amphibians	
Hyla regilla	Pacific treefrog
Rana catesbeiana	bullfrog

 Table 3

 Wildlife Species Observed on the Project Site and Immediate Vicinity

Source: URS field surveys conducted on March 15 and April 23, 2002.

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CITY OF ROSEVILLE **DRAINAGE IMPACT FEES** JULY 01, 2016

DRY CREEK DRAINAGE FEE RATES

Effective July 1, 2016

		COMMERCIAL	RESIDENTIAL:		
Account	DRY CREEK	OR INDUSTRIAL:	HIGH DENSITY	LOW DENSITY	
Code	ASSESSMENT ZONE		(OVER 4 UNIT/AC.)	(4 UNIT/AC. OR LESS)	
	SUBSHED	\$ / ACRE	\$ / NEW UNIT	\$/NEW UNIT	
420	ANTELOPE CREEK	\$2,546	\$213	\$517	
410	DRY CK. MAIN STEM	\$2,122	\$178	\$279	
460	LINDA CK. SOUTH	\$2,586	\$216	\$366	
450	LINDA CK. NORTH	\$2,291	N/A	\$308	
430	MINERS RAVINE	\$3,203	\$268	\$958	
440	STRAP RAVINE	\$2,408	\$200	\$406	
470	SECRET RAVINE	\$2,691	\$224	\$587	

PLEASANT GROVE CREEK DRAINAGE FEE RATES Effective July 1, 2016

Land Use Type:	Fees:	
Low Density Residential (LDR): (less than 7 units/acre)	\$451	per unit
Medium Density Residential (MDR): (7 to 12.9 units/acre)	\$451	per unit
High Density Residential (HDR): (13 units/acre and higher)	\$372	per unit
Neighborhood Commercial (NC)	\$5,853	per acre
Community Commercial (CC)	\$5,853	per acre
Regional Commercial (RC)	\$5,853	per acre
Business Professional (BP)	\$5,853	per acre
Light Industrial (LI)	\$5,853	per acre

370	N.W.R.S.P
375	Highland Reserve North
360	N.C.R.S.P
365	N. Roseville - SP
380	North Indu. Area
390	Infill
400	Del Webb

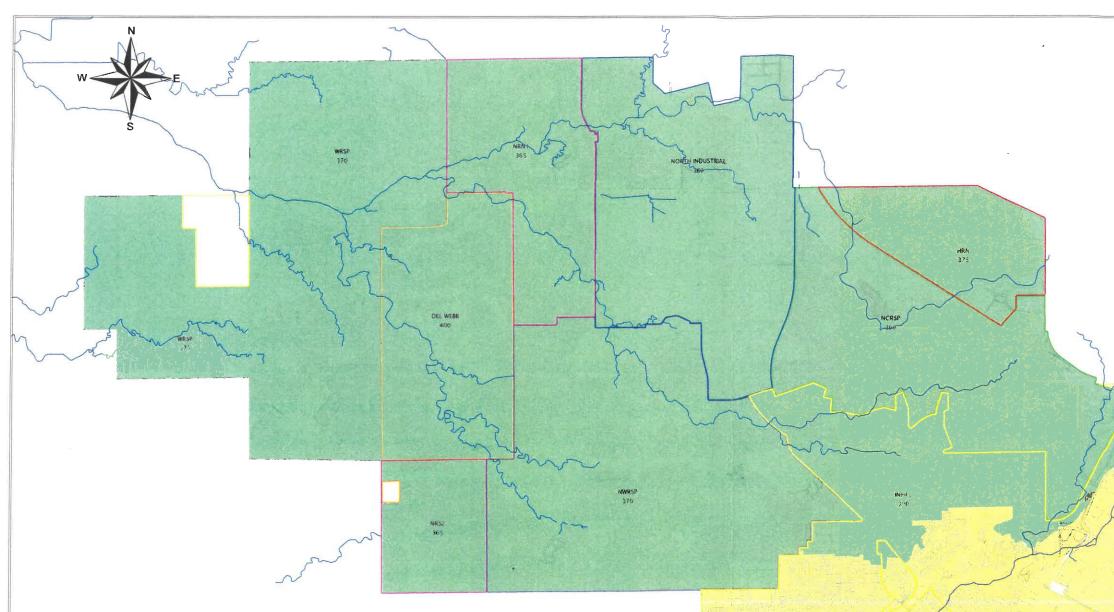
Fee Description	Fee Code	07/01/2016 3.11%
Drainage Mitigation Non-Residential - DC - Antelope	DMF01	2546
Drainage Mitigation High Density - DC - Antelope Creek	DMF02	213
Drainage Mitigation Low Density - DC - Antelope Creek	DMF03	517
Drainage Mitigation Non-Residential - DC - Dry Ck. Main	DMF04	2122
Drainage Mitigation High Density - DC - Dry Ck. Main	DMF05	178
Drainage Mitigation Low Density - DC - Dry Ck. Main	DMF06	279
Drainage Mitigation Non-Residential - DC - Linda Ck.	DMF07	2586
Drainage Mitigation High Density - DC - Linda Ck. South	DMF08	216
Drainage Mitigation Low Density - DC - Linda Ck. South	DMF09	366
Drainage Mitigation Non-Residential - DC - Linda Ck.	DMF10	2291
Drainage Mitigation High Density - DC - Linda Ck. North	DMF11	N/A
Drainage Mitigation Low Density - DC - Linda Ck. North	DMF12	308
Drainage Mitigation Non-Residential - DC - Miners	DMF12	100007
		3203
Drainage Mitigation High Density - DC - Miners Ravine	DMF14	268
Drainage Mitigation Low Density - DC - Miners Ravine	DMF15	958
Drainage Mitigation Non-Residential - DC - Strap Ravine	DMF16	2408
Drainage Mitigation High Density - DC - Strap Ravine	DMF17	200
Drainage Mitigation Low Density - DC - Strap Ravine	DMF18	406
Drainage Mitigation Non-Residential - DC - Secret	DMF19	2691
Drainage Mitigation High Density - DC - Secret Ravine	DMF20	224
Drainage Mitigation Low Density - DC - Secret Ravine	DMF21	587
Drainage Mitigation Non-Residential - PGC - NRS2	DMF22	5853
Drainage Mitigation High Density - PGC - NRS2	DMF23	372
Drainage Mitigation Low Density - PGC - NRS2	DMF24	451
Drainage Mitigation Non-Residential - PGC - North	DMF25	5853
Drainage Mitigation High Density - PGC - North Industrial	DMF26	372
Drainage Mitigation Low Density - PGC - North Industrial	DMF27	451
Drainage Mitigation Non-Residential - PGC - Infill	DMF28	5853
Drainage Mitigation High Density - PGC - Infill	DMF29	372
Drainage Mitigation Low Density - PGC - Infili	DMF30	451
Drainage Mitigation Non-Residential - PGC - Del Webb	DMF31	5853
Drainage Mitigation High Density - PGC - Del Webb	DMF32	372
Drainage Mitigation Low Density - PGC - Del Webb	DMF32	451
Drainage Mitigation Non-Residential - PGC - NCRSP		
Drainage Mitigation High Density - PGC - NCRSP	DMF34	5853
	DMF35	372
Drainage Mitigation Low Density - PGC - NCRSP	DMF36	451
Drainage Mitigation Non-Residential - PGC - NRSP	DMF37	5853
Drainage Mitigation High Density - PGC - NRSP	DMF38	372
Drainage Mitigation Low Density - PGC - NRSP	DMF39	451
Drainage Mitigation Non-Residential - PGC - WRSP	DMF40	5853
Drainage Mitigation High Density - PGC - WRSP	DMF41	372
Drainage Mitigation Low Density - PGC - WRSP	DMF42	451
Drainage Mitigation Non-Residential - PGC - NRN1	DMF43	5853
Drainage Mitigation High Density - PGC - NRN1	DMF44	372
Drainage Mitigation Low Density - PGC - NRN1	DMF45	451
Drainage Mitigation Non-Residential - PGC - HRN	DMF46	5853
Drainage Mitigation High Density - PGC - HRN	DMF47	372
Drainage Mitigation Low Density - PGC - HRN	DMF48	451
Drainage Mitigation Non-Residential - PGC - SVSP	DMF49	5853
Drainage Mitigation High Density - PGC - SVSP	DMF50	372
Drainage Mitigation Low Density - PGC - SVSP	DMF51	451
Drainage Mitigation Non-Residential - PGC - CVSP	DMF52	5853
Drainage Mitigation High Density - PGC - CVSP	DMF52	
		372
Drainage Mitigation Low Density - PGC - CVSP	DMF54	451

Fee Description

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Drainage Mitigation Non-Residential - DC - Antelope	DMF01	\$	2,546.00
Drainage Mitigation High Density - DC - Antelope Creek	DMF02	\$	213.00
Drainage Mitigation Low Density - DC - Antelope Creek	DMF03	\$	517.00
Drainage Mitigation Non-Residential - DC - Dry Ck. Main	DMF04	\$	2,122.00
Drainage Mitigation High Density - DC - Dry Ck. Main	DMF05	\$	178.00
Drainage Mitigation Low Density - DC - Dry Ck. Main	DMF06	\$	279.00
Drainage Mitigation Non-Residential - DC - Linda Ck.	DMF07	\$	2,586.00
Drainage Mitigation High Density - DC - Linda Ck. South	DMF08	\$	216.00
Drainage Mitigation Low Density - DC - Linda Ck. South	DMF09	\$	366.00
Drainage Mitigation Non-Residential - DC - Linda Ck.	DMF10	\$	2,291.00
Drainage Mitigation High Density - DC - Linda Ck. North	DMF11		N/A
Drainage Mitigation Low Density - DC - Linda Ck. North	DMF12	\$	308.00
Drainage Mitigation Non-Residential - DC - Miners Ravine	DMF13	\$	3,203.00
Drainage Mitigation High Density - DC - Miners Ravine	DMF14	\$	268.00
Drainage Mitigation Low Density - DC - Miners Ravine	DMF15	\$	958.0 0
Drainage Mitigation Non-Residential - DC - Strap Ravine	DMF16	\$	2,408.00
Drainage Mitigation High Density - DC - Strap Ravine	DMF17	\$	200.00
Drainage Mitigation Low Density - DC - Strap Ravine	DMF18	\$	406.00
Drainage Mitigation Non-Residential - DC - Secret Ravine	DMF19	\$	2,691.00
Drainage Mitigation High Density - DC - Secret Ravine	DMF20	\$	224.00
Drainage Mitigation Low Density - DC - Secret Ravine	DMF21	\$	587.00
Drainage Mitigation Non-Residential - PGC - NRS2	DMF22	\$	5,853.00
Drainage Mitigation High Density - PGC - NRS2	DMF23	\$	372.00
Drainage Mitigation Low Density - PGC - NRS2	DMF24	\$	451.00
Drainage Mitigation Non-Residential - PGC - North	DMF25	\$	5,853.00
Drainage Mitigation High Density - PGC - North Industrial	DMF26	\$	372.00
Drainage Mitigation Low Density - PGC - North Industrial	DMF27	\$	451.00
Drainage Mitigation Non-Residential - PGC - Infill	DMF28	\$	5,853.00
Drainage Mitigation High Density - PGC - Infill	DMF29	\$	372.00
Drainage Mitigation Low Density - PGC - Infill	DMF30	\$	451.00
Drainage Mitigation Non-Residential - PGC - Del Webb	DMF31	S	5,853.00
Drainage Mitigation High Density - PGC - Del Webb	DMF32	\$	372.00
Drainage Mitigation Low Density - PGC - Del Webb	DMF33	\$	451.00
Drainage Mitigation Non-Residential - PGC - NCRSP	DMF34	S	5,853.00
Drainage Mitigation High Density - PGC - NCRSP	DMF35	S	372.00
Drainage Mitigation Low Density - PGC - NCRSP	DMF36	\$	451.00
Drainage Mitigation Non-Residential - PGC - NRSP	DMF37	s	5,853.00
Drainage Mitigation High Density - PGC - NRSP	DMF38	\$	372.00
Drainage Mitigation Low Density - PGC - NRSP	DMF39	\$	451.00
Drainage Mitigation Non-Residential - PGC - WRSP	DMF40	\$	
Drainage Mitigation High Density - PGC - WRSP	DMF40	ب \$	5,853.00
Drainage Mitigation Low Density - PGC - WRSP	DMF41	\$ \$	372.00
Drainage Mitigation Low Density - FGC - WRSP Drainage Mitigation Non-Residential - PGC - NRN1		<u> </u>	451.00
Drainage Mitigation High Density - PGC - NRN1	DMF43	\$	5,853.00
Drainage Mitigation Low Density - PGC - NRN1	DMF44	\$	372.00
Drainage Mitigation Non-Residential - PGC - HRN	DMF45	\$	451.00
Drainage Mitigation Non-Residential - PGC - HRN Drainage Mitigation High Density - PGC - HRN	DMF46	\$	5,853.00
Drainage Mitigation Figh Density - PGC - HRN Drainage Mitigation Low Density - PGC - HRN	DMF47	\$	372.00
	DMF48	\$	451.00
Drainage Mitigation Non-Residential - PGC - SVSP	DMF49	\$	5,853.00
Drainage Mitigation High Density - PGC - SVSP	DMF50	\$	372.00
Drainage Mitigation Low Density - PGC - SVSP	DMF51	\$	451.00
Drainage Mitigation Non-Residential - PGC - CVSP	DMF52	\$	5,853.00
Drainage Mitigation High Density - PGC - CVSP	DMF53	\$	372.00
Drainage Mitigation Low Density - PGC - CVSP	DMF54	\$	451.00



DRY CREEK DRAINAGE FEE RATES Effective July 2009

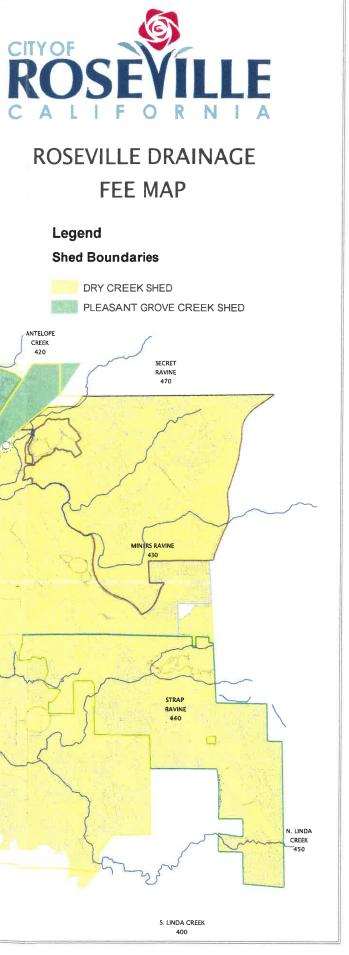
Account	DRY CREEK ASSESSMENT ZONE	COMMERCIAL OR INDU.	HIGH DENSITY	LOW DENSITY (4 UNIT/AC, OR LESS
con	SUBSHED	\$ / ACRE	S / NEW UNIT	
420	ANTELOPE CREEK	\$2,196	\$184	\$446
410	DRY CK. MAIN STEM	\$1.830	\$153	\$241
460	LINDA CK. SOUTH	\$2,230	\$185	\$316
450	LINDA CK. NORTH	\$1.976	\$0	\$265
430	MINERS RAVINE	\$2.763	\$231	\$826
440	STRAP RAVINE	\$2.077	\$172	\$350
470	SECRET RAVINE	\$2.321	\$194	\$506

PLEASANT GROVE CREEK DRAINAGE FEE RATES Effective July 2009

	Land Use Type:	Fees	1
	Low Density Residential (LDR): (less than 7 units/acre)	\$399	per unit
	Medium Density Residential (MDR): (7 to 12.9 units/acre)	\$399	per unit
	High Density Residential (HDR): (13 units/acre and higher)	\$329	per unit
	Neighborhood Commercial (NC)	\$5.175	per acre
	Community Commercial (CC)	\$5,175	per acre
	Regional Commercial (RC)	\$5,175	per acre
	Business Professional (BP)	\$5,175	per acre
	Light Industrial (LI)	\$5.175	per acre
vote:	For July 2009 update, only Dry Creek Regional Fees were increased. The Pleasant Grove Fees were not increased at the discretion of the Roseville City C	ouncil.	
	CCI FOR 2009 UPDATE: 5.81726%		rev. July 20

Date: DECEMBER 2009 mapsvr: publicworks / Project Folder / Drainage

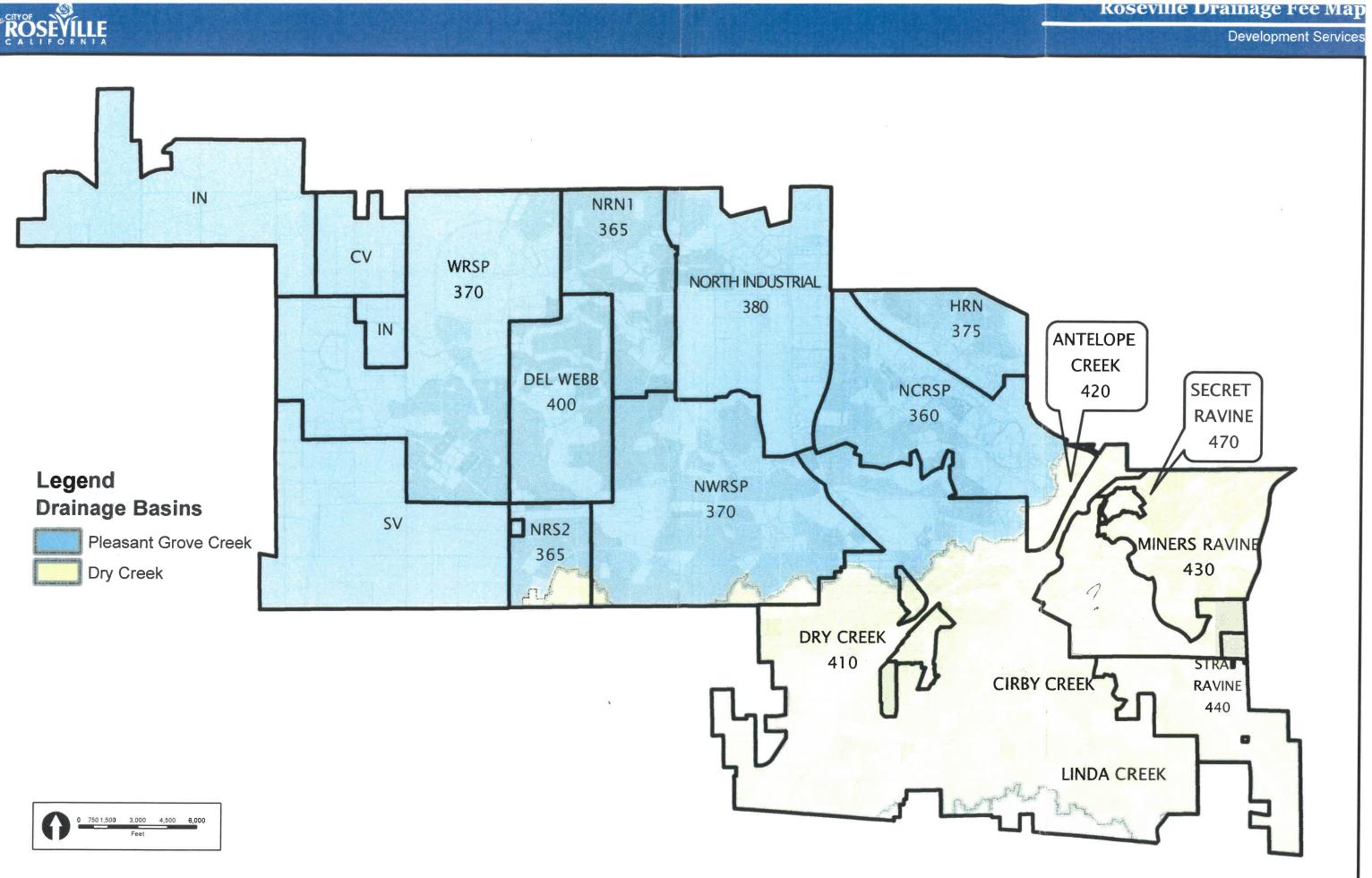
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DRY CREEK

ROSEVILLE

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PLEASANT GROVE CREEK DRAINAGE FEE RATES Effective July 1, 2016

and Use Type:	Fees	
ow Density Residential (LDR): (less than 7 units/acre)	\$451	per unit
Medium Density Residential (MDR): (7 to 12.9 units/acre)	\$451	per unit
High Density Residential (HDR): (13 units/acre and higher)	\$372	per unit
Neighborhood Commercial (NC)	\$5,853	per acre
Community Commercial (CC)	\$5,853	per acre
Regional Commercial (RC)	\$5,853	per acre
Business Professional (BP)	\$5,853	per acre
Light Industrial (LI)	\$5,853	per acre

PLEASANT GROVE CREEK DRAINAGE FEE RATES Effective July 1, 2015

Land Use Type:	Fees	
Low Density Residential (LDR): (less than 7 units/acre)	\$438	per unit
Medium Density Residential (MDR): (7 to 12.9 units/acre)	\$438	per unit
High Density Residential (HDR): (13 units/acre and higher)	\$361	per unit
Neighborhood Commercial (NC)	\$5,677	per acre
Community Commercial (CC)	\$5,677	per acre
Regional Commercial (RC)	\$5,677	per acre
Business Professional (BP)	\$5,677	per acre
Light Industrial (LI)	\$5,677	per acre

PLEASANT GROVE CREEK DRAINAGE FEE RATES Effective July 2014

Land Use Type:	Fees	
Low Density Residential (LDR): (less than 7 units/acre)	\$426.93	per unit
Medium Density Residential (MDR): (7 to 12.9 units/acre)	\$426.93	per unit
High Density Residential (HDR): (13 units/acre and higher)	\$352.27	per unit
Neighborhood Commercial (NC)	\$5,539.56	per acre
Community Commercial (CC)	\$5,539.56	per acre
Regional Commercial (RC)	\$5,539.56	per acre
Business Professional (BP)	\$5,539.56	per acre
Light Industrial (LI)	\$5,539.56	per acre

PLEASANT GROVE CREEK DRAINAGE FEE RATES Effective July 2013

Land Use	Fees	
Type:		
Low Density Residential (LDR): (less than 7 units/acre)	\$411	per unit
Medium Density Residential (MDR): (7 to 12.9 units/acre)	\$411	per unit
High Density Residential (HDR): (13 units/acre and higher)	\$339	per unit
Neighborhood Commercial (NC)	\$5,328	per acre
Community Commercial (CC)	\$5,328	per acre
Regional Commercial (RC)	\$5,328	per acre
Business Professional (BP)	\$5,328	per acre
Light Industrial (LI)	\$5,328	per acre

PLEASANT GROVE CREEK DRAINAGE FEE RATES Effective July 2012

Land Use	Fees		٦
Туре:			
Low Density Residential (LDR): (less than 7 units/acre)	\$406	per unit	
Medium Density Residential (MDR): (7 to 12.9 units/acre)	\$406	per unit	
High Density Residential (HDR): (13 units/acre and higher)	\$335	per unit	
Neighborhood Commercial (NC)	\$5,268	per acre	
Community Commercial (CC)	\$5,268	per acre	
Regional Commercial (RC)	\$5,268	per acre	
Business Professional (BP)	\$5,268	per acre	
Light Industrial (LI)	\$5,268	per acre	